

What is claimed is:

1. In a penetration type washing machine for washing laundry by penetrating
5 washing water therethrough in a stream direction of the washing water of "V" shape
according to high speed rotation of an inner tub or a pulsator, a structure for guiding
washing water in a tub cover of a penetration type washing machine comprising:

a plurality of first direction change ribs formed at the bottom of the tub cover so
as to change a stream direction of the washing water rising upwardly along a wall
10 surface of an outer tub according one direction rotation of the inner tub or the pulsator
to the center of the inner tub; and

a lower direction guide rib formed in a inner surface of the tub cover so as to
provide the washing water having the changed direction by the first direction change
ribs to the inner tub.

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2. The structure as claimed in claim 1, further comprising a first bumping rib for
connecting an end portion of the first direction change rib to the lower direction guide
rib, in which the washing water hits the first bumping rib before the washing water hits
the lower direction guide rib, so that it is possible to minimize the scattering of the
20 washing water when the washing water having the changed direction by the first
direction change rib hits the lower direction guide rib.

3. The structure as claimed in claim 2, wherein the first bumping rib has a lower
height than the first direction change rib and the lower direction guide rib.

4. The structure as claimed in claim 1, further comprising a scattering prevention
rib formed at the bottom of the tub cover so as to prevent the washing water being
guided to the first direction change rib and the lower direction guide rib from being
5 scattered.

5. The structure as claimed in claim 1, further comprising a plurality of second
direction change ribs for being opposite to the plurality of first direction change ribs
formed at the bottom of the tub cover so as to change the stream direction of the
10 washing water rising upwardly along the wall surface of the outer tub according to
regular and reverse direction rotation of the inner tub or the pulsator to the center
direction of the inner tub..

6. The structure as claimed in claim 5, further comprising a second bumping rib
15 for connecting an end portion of the second direction change rib to the lower direction
guide rib, in which the washing water hits the second bumping rib before the washing
water hits the lower direction guide rib, so that it is possible to minimize the scattering
of the washing water when the washing water having the changed direction by the
second direction change rib hits the lower direction guide rib.

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7. The structure as claimed in claim 6, wherein the second bumping rib has a
lower height than the second direction change rib and the lower direction guide rib.

8. The structure as claimed in claim 1, further comprising a first through hole

formed at a portion of the lower direction guide rib corresponding to the end portion of the first direction change rib, so as to provide the washing water passing through the end portion of the first direction change rib to the inner tub, so that it is possible to minimize the scattering of the washing water when the washing water having the changed direction by the first direction change rib hits the lower direction guide rib.

9. The structure as claimed in claim 5, further comprising a second through hole formed at a portion of the lower direction guide rib being opposite to the first through hole, so as to provide the washing water passing through the end portion of the second direction change rib to the inner tub, so that it is possible to minimize the scattering of the washing water when the washing water having the changed direction by the second direction change rib hits the lower direction guide rib.

10. The structure as claimed in claim 1 or claim 4, further comprising a first guide slope surface formed at end portions of the first direction change rib and the scattering prevention rib so as to provide the washing water passing through the end portion of the first direction change rib to the inner tub, so that it is possible to minimize the scattering of the washing water when the washing water having the changed direction by the first direction change rib hits the lower direction guide rib.

11. The structure as claimed in claim 4 or claim 5, further comprising a second guide slope surface formed at end portion of the second direction change rib and the scattering prevention rib so as to provide the washing water passing through the end portion of the second direction change rib to the inner tub, so that it is possible to

minimize the scattering of the washing water when the washing water having the changed direction by the second direction change rib hits the lower direction guide rib.

12. The structure as claimed in claim 5, further comprising a plurality of
5 reinforcing ribs for connecting the first direction change rib to the second direction change rib so as to prevent the spray shape of the washing water from being changed by whirlpool of the washing water during guiding the washing water by the first and second direction change ribs.